

OIL FIELD RESEARCH LABORATORIES
CHANUTE, KANSAS

April 21, 1952

Mr. M. C. Colt
Iola, Kansas

Dear Sir:

Attached hereto are the results of effective permeability tests made on the Baker barrel core taken from the Henninger "A" Lease, Well No. 29E, Allen County, Kansas, and submitted to our laboratory on April 14, 1952.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Fred O. Stenger

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Henninger "A" 29E

TWP 24S RGE 21E SEC 3

LOGCompany M. C. Colt, M.T. Project Lease Henninger "A" Well No. 29E

<u>Depth Interval, Feet</u>	<u>Description</u>
599.00 - 599.85	- Light brown fine grained micaceous sandstone.
599.85 - 600.25	- Gray shale.
600.25 - 603.20	- Light brown fine grained micaceous sandstone.
603.20 - 605.20	- Brown fine grained micaceous sandstone.
605.20 - 607.80	- Gray shale.
607.80 - 608.00	- Brown fine grained micaceous sandstone.
608.00 - 612.35	- Finely laminated sandy shale.
612.35 - 612.50	- Brown fine grained laminated micaceous shaley sandstone.
612.50 - 613.80	- Brown fine grained micaceous sandstone.
613.80 - 614.10	- Gray sandy shale.
614.10 - 615.00	- Brown fine grained micaceous sandstone.
615.00 - 615.85	- Finely laminated micaceous slightly carbonaceous shaley sandstone.
615.85 - 619.50	- Brown fine grained micaceous sandstone.
619.50 - 620.25	- Dark fine grained micaceous carbonaceous sandstone.
620.25 - 620.90	- Brown fine grained micaceous sandstone.
620.90 - 622.80	- Brown fine grained micaceous shaley sandstone.
622.80 - 623.65	- Brown fine grained micaceous sandstone.
623.65 - 624.60	- Brown fine grained micaceous slightly shaley sandstone.
624.60 - 626.00	- Dark fine grained micaceous sandstone.
626.00 - 629.00	- Dark fine grained micaceous carbonaceous shaley sandstone.
629.00 - 630.00	- Dark fine grained micaceous carbonaceous sandstone.
630.00 - 630.65	- Dark finely laminated micaceous carbonaceous shaley sandstone.

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- 630.65 - 641.00 - Dark fine grained micaceous carbonaceous slightly shaley sandstone.
- 641.00 - 642.70 - Dark fine grained micaceous carbonaceous shaley sandstone.
- 642.70 - 646.00 - Dark fine grained micaceous carbonaceous sandstone.
- 646.00 - 647.20 - Dark fine grained micaceous carbonaceous shaley sandstone.
- 647.20 - 653.00 - Gray shale.

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SHOT RECOMMENDATION

Company M. C. Colt, M.T. Project Lease Henninger "A" Well No. 29E

<u>Depth Interval, Feet</u>	<u>Feet of Sand</u>	<u>Size of Shell Inches</u>	<u>Qts./Ft.</u>	<u>Total Quarts</u>
615.0 - 623.0	8.0	4.0	2.5	20.0

Recommended Packer Setting 612.0 feet.

Note: Plug hole back to 624.0 feet.

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company M. C. Colt, M.T. Project Lease Henninger "A" Well No. 29E

Sample No.	Depth, Feet	Effective Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	599.50	28.32	0.85	0.85		
2	600.90	22.43	1.15	2.00		
3	601.90	14.98	1.80	3.80		
4	603.34	29.81	0.80	4.60		
5	604.65	25.10	1.20	5.80		
6	605.65	17.02	1.30	7.10		
7	612.40	Imp.	0.15	7.25		
8	613.50	0.205	1.30	8.55		
9	614.85	4.29	0.90	9.45		
10	616.00	27.47	0.85	10.30		
11	617.60	4.48	1.50	11.80		
12	618.85	6.27	1.30	13.10		
13	619.80	0.823	0.75	13.85		
14	620.70	1.23	0.65	14.50		
15	623.20	1.76	0.85	15.35		
16	624.40	0.851	0.95	16.30		
17	625.40	Imp.	1.40	17.70		
18	628.20	Imp.	1.00	18.70		
19	635.85	Imp.	1.10	19.80		
20	640.65	0.287	1.00	20.80		
21	645.65	Imp.	1.00	21.80		
22	646.65	Imp.	1.20	23.00		

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company M. C. Colt, M.T. Project Lease Henninger "A" Well No. 29E

Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
599.00-641.00	17.15	-	11.62	-	-
612.00-624.00	8.45	-	5.40	-	-